

## **DETAILED ACTION**

### ***Status of Claims***

1. Claims 1, 3, 7, 10, and 11 are pending in this application. Claims 2, 4-6, 8, and 9 have been cancelled. This action is in response to the applicants' amendment after a final action filed on May 16, 2008.

### ***Status of Objections***

2. The abstract of the disclosure is objected to as being over 150 words in length. The objection to the abstract of the disclosure is hereby withdrawn in view of applicants' amendments to the abstract.
3. Claims 1-3 and 7 are objected to as containing minor informalities. The objections of Claims 1-3 and 7 are hereby withdrawn in view of applicants' amendments to Claim 1 and the cancellation of claim 2.
4. Claim 11 is objected to as containing minor informalities. The objection of Claim 11 is hereby withdrawn in view of applicants' amendments to Claim 11.

### ***Status of Rejections***

5. In view of the amendments, arguments presented, and cancellations in the Response by applicants, all the previous rejections of record have been overcome.
6. Claims 1-3, 7, 10 and 11 are rejected under 35 U.S.C. 112, 2<sup>nd</sup> paragraph, as failing to comply with the definiteness requirement. The rejection of Claims 1-3, 7, 10 and 11 are hereby withdrawn in view of applicants' amendments to claims 1 and 10.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.

***Rejoinder***

7. Claims 1, 3, 7, 10 and 11 are directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(B), claims 4-6 are directed to the process of making or using an allowable product, previously withdrawn from consideration as a result of a restriction requirement, are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, **the restriction requirement as set forth in the Office action mailed on February 13, 2007 is hereby withdrawn.** In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

**Examiner's Amendment**

8. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Eric DeMaster on June 10, 2007. The application has been amended as follows:

a) In Claim 1, lines 5-12 have been deleted and replaced with,  
---R<sub>1</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group or a C<sub>1</sub>-C<sub>3</sub> alkoxy group,  
R<sub>2</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group, a C<sub>1</sub>-C<sub>3</sub> alkoxy group, or a CF<sub>3</sub> group,  
R<sub>3</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group or a C<sub>1</sub>-C<sub>3</sub> alkoxy group,  
R<sub>4</sub> represents a hydrogen or a C<sub>1</sub>-C<sub>3</sub> alkyl group, ---

b) In Claim 1, line 15, has been deleted and replaced with,  
---X represents a nitrogen atom,

c) In Claim 1, line 16, has been deleted and replaced with,  
---p represents 2,

d) In Claim 4, lines 5-12 have been deleted and replaced with,  
---R<sub>1</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group or a C<sub>1</sub>-C<sub>3</sub> alkoxy group,  
R<sub>2</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group, a C<sub>1</sub>-C<sub>3</sub> alkoxy group, or a CF<sub>3</sub> group,  
R<sub>3</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group or a C<sub>1</sub>-C<sub>3</sub> alkoxy group,  
R<sub>4</sub> represents a hydrogen or a C<sub>1</sub>-C<sub>3</sub> alkyl group, ---

e) In Claim 4, line 17, has been deleted and replaced with,  
---X represents a nitrogen atom,

f) In Claim 4, line 18, has been deleted and replaced with,  
---p represents 2,

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g) In Claim 5, lines 4-11 and 25-32 have been deleted and replaced with,  
---R<sub>1</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group or a C<sub>1</sub>-C<sub>3</sub> alkoxy group,  
R<sub>2</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group, a C<sub>1</sub>-C<sub>3</sub> alkoxy group, or a  
CF<sub>3</sub> group,  
R<sub>3</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group or a C<sub>1</sub>-C<sub>3</sub> alkoxy group,  
R<sub>4</sub> represents a hydrogen or a C<sub>1</sub>-C<sub>3</sub> alkyl group, ---

h) In Claim 5, line 14, has been deleted and replaced with,  
---X represents a nitrogen atom,

i) In Claim 5, line 15, has been deleted and replaced with,  
---p represents 2,

j) In Claim 6, line 9, has been deleted and replaced with,  
---X represents a nitrogen atom,

k) In Claim 6, line 10, has been deleted and replaced with,  
---p represents 2,

l) In Claim 6, lines 27-34 have been deleted and replaced with,  
--- R<sub>1</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group or a C<sub>1</sub>-C<sub>3</sub> alkoxy group,  
R<sub>2</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group, a C<sub>1</sub>-C<sub>3</sub> alkoxy group, or a  
CF<sub>3</sub> group,  
R<sub>3</sub> represents a hydrogen, a halogen, a C<sub>1</sub>-C<sub>3</sub> alkyl group or a C<sub>1</sub>-C<sub>3</sub> alkoxy group,  
R<sub>4</sub> represents a hydrogen or a C<sub>1</sub>-C<sub>3</sub> alkyl group, ---

m) Claim 10 has been amended to the following:

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10. (Currently Amended) The compound of claim 1, wherein the formula I compound comprises N-(2-hydroxyethyl)-4-methoxy-N,2,6-trimethylbenzene-sulphonamide which is selected from the group consisting of:

[2-[[[4-methoxy-2,6-dimethylphenyl]sulphonyl]methylamino]-ethoxy]acetic acid, 1,1-dimethylethyl ester;

[2-[[[4-methoxy-2,6-dimethylphenyl]sulphonyl]methylamino]-ethoxy]acetic acid;

1-[1-[[[4-methoxy-2,6-dimethylphenyl]sulphonyl]methylamino]-ethoxy]acetyl]-4-[2-(1-pyrrolidinyl)ethyl]piperazine, bis-trifluoroacetate;

[2-[[[2,4,6-trimethylphenyl]sulphonyl]methylamino]ethoxy]-acetic acid, 1,1-dimethylethyl ester;

[2-[[[2,4,6-trimethylphenyl]sulphonyl]methylamino]ethoxy]-acetic acid;

N-ethyl-N-(2-hydroxyethyl)-4-methoxy-2,6-dimethylbenzene-sulphonamide;

[2-[[[4-methoxy-2,6-dimethylphenyl]sulphonyl]ethylamino]-ethoxy]acetic acid, 1,1-dimethylethyl ester;

[2-[[[4-methoxy-2,6-dimethylphenyl]sulphonyl]ethylamino]-ethoxy]acetic acid;

N-(2-hydroxyethyl)-4-methoxy-2,6-dimethyl-N-(1-methylethyl)benzene-sulphonamide;

[2-[[[4-methoxy-2,6-dimethylphenyl]sulphonyl](1-methylethyl)amino]-ethoxy]acetic acid, 1,1-dimethylethyl ester;

[2-[[[4-methoxy-2,6-dimethylphenyl]sulphonyl](1-methylethyl)amino]-ethoxy]acetic acid;

N-cyclopropyl-N-(2-hydroxyethyl)-4-methoxy-2,6-dimethylbenzene-sulphonamide;

[2-[cyclopropyl[[[4-methoxy-2,6-dimethylphenyl]sulphonyl]amino]ethoxy]acetic acid, 1,1-dimethylethyl ester;

[2-[cyclopropyl[[[4-methoxy-2,6-dimethylphenyl]sulphonyl]amino]ethoxy]acetic acid;

2,6-dichloro-4-methoxybenzenesulphonyl chloride and 2,4-dichloro-6-methoxybenzenesulphonyl chloride;

2,6-dichloro-N-(2-hydroxyethyl)-4-methoxy-N-methyl benzenesulphonamide;

2,4-dichloro-N-(2-hydroxyethyl)-6-methoxy-N-methyl benzenesulphonamide;

[2-[[[2,6-dichloro-4-methoxyphenyl]sulphonyl]methylamino]-ethoxy]acetic acid, 1,1-dimethylethyl ester;

[2-[[[2,6-dichloro-4-methoxyphenyl]sulphonyl]methylamino]-ethoxy]-acetic acid;

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[2-[[[(2,4-dichloro-6-methoxyphenyl)sulphonyl]methylamino]ethoxy]acetic acid, 1,1-dimethylethyl ester;

[2-[[[(2,4-dichloro-6-methoxyphenyl)sulphonyl]methylamino]ethoxy]acetic acid;

2,4-dichloro-N-(2-hydroxyethyl)-3,N-dimethyl-benzenesulphonamide;

[2-[[[(2,4-dichloro-3-methylphenyl)sulphonyl]methylamino]ethoxy]acetic acid, 1,1-dimethylethyl ester;

[2-[[[(2,4-dichloro-3-methylphenyl)sulphonyl]methylamino]ethoxy]acetic acid; N-(2-hydroxyethyl)-N-methyl-2-(trifluoromethyl)benzene-sulphonamide;

[2-[[[2-(trifluoromethyl)phenyl]sulphonyl]methylamino]-ethoxy]acetic acid, 1,1-dimethylethyl ester;

[2-[[[2-(trifluoromethyl)phenyl]sulphonyl]methylamino]-ethoxy]acetic acid;

[2-[[[4-methoxy-2-(trifluoromethyl)phenyl]sulphonyl]-methylamino]ethoxy]-acetic acid;

4-(3-quinuclidinyl)piperazine-1-carboxylic acid, 1,1-dimethylethyl ester;

(3RS)-3-(1-piperazinyl)-1-azabicyclo[2.2.2]octane;

(3RS)-3-(1-piperazinyl)quinuclidine);

N-[2-[2-[4-[(3RS)-1-azabicyclo[2.2.2]oct-3-yl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-N,2,4,6-tetramethylbenzenesulphonamide, bis trifluoro-acetate;

N-[2-[2-[4-[(3RS)-1-azabicyclo[2.2.2]oct-3-yl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide;

N-[2-[2-[4-[(3RS)-1-azabicyclo[2.2.2]oct-3-yl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide, difumarate;

N-[2-[2-[4-[(3S)-1-azabicyclo[2.2.2]oct-3-yl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide;

N-[2-[2-[4-v(3S)-1-azabicyclo[2.2.2]oct-3-yl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide, fumarate;

N-[2-[2-[4-[(3R)-1-azabicyclo[2.2.2]oct-3-yl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide, fumarate;

1-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]-ethoxy]-acetyl]-4-[3-(1-pyrrolidinyl)propyl]piperazine, bis-trifluoroacetate;

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1-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]-ethoxy]-acetyl]-4-[2-(4-morpholinyl)ethyl]piperazine, bis-trifluoroacetate;

1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide, fumarate;

4-(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)-1-piperazine-carboxylic acid, 1,1-dimethylethyl ester;

8-methyl-3-(1-piperazinyl)-8-azabicyclo[3.2.1]octane;

4-(1-azabicyclo[2.2.2]oct-3-yl)hexahydro-1H-1,4-diazepine-1-carboxylic acid, 1,1-dimethylethyl ester;

3-(hexahydro-1H-1,4-diazepine-1-yl)-1-azabicyclo[2.2.2]octane;

1-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]ethoxy]-acetyl]-4-[3-(1-pyrrolidinyl)propyl]piperazine, bis-trifluoroacetate;

1-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]-ethoxy]-acetyl]-4-[2-(4-morpholinyl)ethyl]piperazine, bis-trifluoroacetate;

1-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]ethoxy]acetyl]-4-[2-(1-piperidinyl)ethyl]piperazine, bis-trifluoroacetate;

1-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]ethoxy]acetyl]-4-[3-(1-piperidinyl)propyl]piperazine, bis-trifluoroacetate;

1-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]-ethoxy]-acetyl]-4-[3-(dimethylamino)propyl]piperazine, bis-trifluoroacetate;

4-methoxy-N,2,6-trimethyl-N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, bis trifluoroacetate;

4-methoxy-N,2,6-trimethyl-N-[2-[2-[4-(8-methyl-8-azabicyclo[3.2.1]-oct-3-yl)-1-piperazinyl]-2-oxoethoxy]ethyl]-benzenesulphonamide, fumarate;

1-(1-azabicyclo[2.2.2]oct-3-yl)hexahydro-4-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methylamino]ethoxy]acetyl]-1H-1,4-diazepine, fumarate;

4-[1-(1,1-dimethylethyl)-4-piperidinyl]-1-piperazinecarboxylic acid, phenylmethyl ester;

1-[1-(1,1-dimethylethyl)-4-piperidinyl]piperazine;

4-(9-methyl-9-azabicyclo[3.3.1]non-3-yl)-1-piperazinecarboxylic acid, phenylmethyl ester;

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1-(9-methyl-9-azabicyclo[3.3.1]non-3-yl)piperazine;  
4-(1,2,2,6,6-pentamethyl-4-piperidinyl)-1-piperazinecarboxylic acid, phenylmethyl ester;  
1-(1,2,2,6,6-pentamethyl-4-piperidinyl)piperazine;  
4-[1-(1-methylethyl)-4-piperidinyl]-1-piperazinecarboxylic acid, 1,1-dimethylethyl ester;  
1-[1-(1-methylethyl)-4-piperidinyl]piperazine, trihydrochloride;  
4-(1-cyclopropyl-4-piperidinyl)-1-piperazinecarboxylic acid,  
phenylmethyl ester;  
1-(1-cyclopropyl-4-piperidinyl)piperazine;  
4-(1-methyl-4-piperidinyl)hexahydro-1*H*-1,4-diazepine-1-carboxylic acid, 1,1-  
dimethylethyl ester;  
1-(1-methyl-4-piperidinyl)hexahydro-1*H*-1,4-diazepine, trihydrochloride;  
4-(8-cyclopropyl-8-azabicyclo[3.2.1]oct-3-yl)-1-piperazinecarboxylic acid, 1,1-  
dimethylethyl ester;  
8-cyclopropyl-3-(1-piperazinyl)-8-azabicyclo[3.2.1]octane;  
4-[1-[(1,1-dimethylethoxy)carbonyl]-4-piperidinyl]-1-piperazinecarboxylic acid,  
phenylmethyl ester;  
4-(4-piperidinyl)-1-piperazinecarboxylic acid, phenylmethyl ester;  
4-(1-ethyl-4-piperidinyl)-1-piperazinecarboxylic acid, phenylmethyl ester;  
1-(1-ethyl-4-piperidinyl)piperazine;  
4-[8-[(1,1-dimethylethoxy)carbonyl]-8-azabicyclo[3.2.1]oct-3-yl]-1-piperazinecarboxylic  
acid, phenylmethyl ester;  
4-(8-azabicyclo[3.2.1]oct-3-yl)-1-piperazinecarboxylic acid, phenylmethyl ester,  
hydrochloride;  
4-(8-ethyl-8-azabicyclo[3.2.1]oct-3-yl)-1-piperazinecarboxylic acid, phenylmethyl ester;  
1-(8-ethyl-8-azabicyclo[3.2.1]oct-3-yl)piperazine;  
4-[8-(1-methylethyl)-8-azabicyclo[3.2.1]oct-3-yl]-1-piperazinecarboxylic acid,  
phenylmethyl ester;  
1-[8-(1-methylethyl)-8-azabicyclo[3.2.1]oct-3-yl]piperazine;  
Hexahydro-1-methyl-4-(1-oxo-2-propenyl)-1*H*-1,4-diazepine;



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4-[3-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)-3-oxopropyl]-1-piperazinecarboxylic acid, phenylmethyl ester;

1-[3-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)-3-oxopropyl]piperazine;

1-[3-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)propyl]piperazine;

4-[2-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)-2-oxoethyl]-1-piperazinecarboxylic acid, phenylmethyl ester;

1-[2-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)-2-oxoethyl]piperazine;

1-[2-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)ethyl]piperazine;

4-(1-oxo-2-propenyl)azetidide;

4-[3-(1-azetidynyl)-3-oxopropyl]-1-piperazinecarboxylic acid, phenylmethyl ester;

1-[3-(1-azetidynyl)-3-oxopropyl]piperazine;

1-[3-(1-azetidynyl)propyl]piperazine;

4-[(dimethylamino)methyl]-4-piperidinemethanol;

4-(1-pyrrolidinylmethyl)piperidine;

4-[(4-(1-methylethyl)-1-piperazinyl)-1-piperidinecarboxylic acid, phenylmethyl ester;

4-[4-(1-methylethyl)-1-piperazinyl]piperidine;

4-[(4-methyl-1-piperazinyl)methyl]-1-piperidinecarboxylic acid, phenylmethyl ester;

4-[(4-methyl-1-piperazinyl)methyl]piperidine;

4-[(1-azetidynyl)methyl]-1-piperidinecarboxylic acid, phenylmethyl ester;

4-[(1-azetidynyl)methyl]piperidine;

4-[(dimethylamino)methyl]-1-piperidinecarboxylic acid, phenylmethyl ester;

4-[(dimethylamino)methyl]piperidine;

4-[(4-ethyl-1-piperazinyl)methyl]-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;

4-[(4-ethyl-1-piperazinyl)methyl]piperidine;

4-[(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)methyl]-1-piperidine-carboxylic acid, 1,1-dimethylethyl ester;

4-[(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)methyl]piperidine;

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4-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;

4-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)piperidine, trihydrochloride;

4-(4-cyclopropyl-1-piperazinyl)-1-piperidinecarboxylic acid, phenylmethyl ester

4-(4-cyclopropyl-1-piperazinyl)piperidine;

4-[4-(1,1-dimethylethyl)-1-piperazinyl]-1-piperidinecarboxylic acid, phenylmethyl ester;

4-[4-(1,1-dimethylethyl)-1-piperazinyl]piperidine;

4-(4-piperidinyl)-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;

4-(1-ethyl-4-piperidinyl)-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;

4-(1-ethyl-4-piperidinyl)piperidine, dihydrochloride;

4-[1-(1-methylethyl)-4-piperidinyl]-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;

4-[1-(1-methylethyl)-4-piperidinyl]piperidine, dihydrochloride;

4-(1-cyclopropyl-4-piperidinyl)-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;

4-(1-cyclopropyl-4-piperidinyl)piperidine, dihydrochloride;

4-[2-(4-piperidinyl)ethyl]-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;

4-[2-(1-methyl-4-piperidinyl)ethyl]piperidine;

4-[2-(4-methyl-1-piperazinyl)ethyl]pyridine;

4-[2-(1-piperidinyl)ethyl]pyridine;

4-[2-[(methyl)(1-methylethyl)amino]ethyl]pyridine;

4-[2-(4-morpholinyl)ethyl]pyridine;

4-[2-(1-azetidiny)ethyl]pyridine;

-(Methyl)[2-(4-pyridinyl)ethyl]carbamic acid, 1,1-dimethylethyl ester;

4-[2-[(methyl)(ethyl)amino]ethyl]pyridine;

4-[2-(diethylamino)ethyl]pyridine;

4-[2-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)ethyl]pyridine;

4-[2-(4-methyl-1-piperazinyl)ethyl]piperidine;

4-[2-(dimethylamino)ethyl]piperidine;

4-[2-(1-pyrrolidinyl)ethyl]piperidine;

4-[2-(1-piperidinyl)ethyl]piperidine;

4-[2-[(methyl)(1-methylethyl)amino]ethyl]piperidine;

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4-[2-(4-morpholinyl)ethyl]piperidine;  
4-[2-(1-azetidiny)ethyl]piperidine;  
(Methyl)[2-(4-piperidinyl)ethyl]carbamic acid, 1,1-dimethylethyl ester;  
4-[2-[(methyl)(ethyl)amino]ethyl]piperidine;  
4-[2-(diethylamino)ethyl]piperidine;  
4-[2-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)ethyl]piperidine;  
4-(2-hydroxy-1,1-dimethylethyl)-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;  
4-(1,1-dimethyl-2-oxoethyl)-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;  
4-[2-(1-azetidiny)-1,1-dimethylethyl]-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;  
4-[2-(1-azetidiny)-1,1-dimethylethyl]piperidine, bis(trifluoroacetate);  
4-[2-(4-morpholinyl)-1,1-dimethylethyl]-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;  
4-[2-(4-morpholinyl)-1,1-dimethylethyl]piperidine, bis(trifluoroacetate);  
4-[2-(1-piperidinyl)-1,1-dimethylethyl]pyridine;  
4-[2-(1-piperidinyl)-1,1-dimethylethyl]piperidine;  
4-[2-(1-pyrrolidinyl)-1,1-dimethylethyl]piperidine;  
4-[2-(diethylamino)-1,1-dimethylethyl]piperidine;  
N,1-dimethyl-N-[1-(phenylmethyl)-4-piperidinyl]-4-piperidinamine;  
N,1-dimethyl-N-(4-piperidinyl)-4-piperidinamine;  
4-[2-oxo-2-(4-methyl-1-piperazinyl)ethyl]pyridine;  
4-[2-oxo-2-(4-methyl-1-piperazinyl)ethyl]piperidine;  
N-[2-[2-[4-[3-(1-azetidiny)propyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, difumarate;  
N-[2-[2-[4-(1-methyl-3-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, difumarate;  
N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-cyclopropyl-2,6-dimethylbenzenesulphonamide, difumarate;  
N-[2-[2-[4-[2-(1-pyrrolidinyl)ethyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-cyclopropyl-2,6-dimethylbenzenesulphonamide, difumarate;

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N-[2-[2-[4-[(1-methyl-2-imidazolyl)methyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-ethyl-2,6-dimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-[3-(dimethylamino)propyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-ethyl-2,6-dimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-(9-methyl-9-azabicyclo[3.3.1]non-3-yl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, fumarate;

N-[2-[2-[4-[3-(1-pyrrolidinyl)propyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-ethyl-2,6-dimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-[3-(1-pyrrolidinyl)propyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-cyclopropyl-2,6-dimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-(8-cyclopropyl-8-azabicyclo[3.2.1]oct-3-yl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, fumarate;

N-[2-[2-[4-(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-ethyl-2,6-dimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-cyclopropyl-2,6-dimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-(1-cyclopropyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-(1-methylethyl)-2,6-dimethylbenzenesulphonamide, difumarate.

N-[2-[2-[4-(1-ethyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, fumarate;

N-[2-[2-[4-[1-(1,1-dimethylethyl)-4-piperidinyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide, difumarate;

N-[2-[2-[4-[(1-methyl-4-piperidinyl)methyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide, fumarate;

N-[2-[2-[4-[3-(dimethylamino)propyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-2,6-dichloro-4-methoxy-N-methyl-benzene-sulphonamide, difumarate;

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N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-2,6-dichloro-4-methoxy-N-methyl-benzene-sulphonamide, difumarate;

N-[2-[2-[4-[2-(1-methyl-4-piperidinyl)ethyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide, difumarate;

N-[2-[2-[4-(1-methyl-4-piperidinyl)hexahydro-1*H*-1,4-diazepin-1-yl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, fumarate;

N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-(1-methylethyl)-2,6-dimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-[1-(1-methylethyl)-4-piperidinyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, fumarate;

N-[2-[2-[4-[3-(1-piperidinyl)propyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-ethyl-2,6-dimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-2,4-dichloro-6-methoxy-N-methyl-benzene-sulphonamide, difumarate;

N-[2-[2-[4-(1-ethyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-2,6-dichloro-4-methoxy-N-methyl-benzene-sulphonamide, fumarate;

N-[2-[2-[4-((3*S*)-1-azabicyclo[2.2.2]oct-3-yl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-methyl-2,6-dichlorobenzenesulphonamide, fumarate;

N-[2-[2-[4-(1,2,2,6,6-pentamethyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide, bis(trifluoroacetate);

N-[2-[2-[4-[3-(4-methyl-1-piperazinyl)propyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide, difumarate;

N-[2-[2-[4-(8-ethyl-8-azabicyclo[3.2.1]oct-3-yl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzene-sulphonamide, difumarate;

N-[2-[2-[4-[3-(4-methyl-hexahydro-1*H*-1,4-diazepin-1-yl)propyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-[8-(1-methylethyl)-8-azabicyclo[3.2.1]oct-3-yl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, difumarate;

N-[2-[2-[4-[3-(4-methyl-hexahydro-1*H*-1,4-diazepin-1-yl)-3-oxo-propyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, bis(trifluoroacetate);

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N-[2-[2-[4-[2-(4-methyl-hexahydro-1*H*-1,4-diazepin-1-yl)ethyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, trifumarate;  
N-[2-[2-[4-((3*S*)-1-azabicyclo[2.2.2]oct-3-yl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-cyclopropyl-2,6-dimethylbenzenesulphonamide, difumarate;  
N-[2-[2-[4-((3*S*)-1-azabicyclo[2.2.2]oct-3-yl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N-ethyl-2,6-dimethylbenzenesulphonamide, difumarate;  
N-[2-[2-[4-[2-(diethylamino)ethyl]-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-N,2,6-trimethylbenzenesulphonamide, fumarate;  
[2-[methyl(phenylmethyl)amino]ethoxy]acetic acid, 1,1-dimethylethyl ester;  
[2-[methyl(phenylmethyl)amino]ethoxy]acetic acid, lithium salt;  
*N*-methyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxoethoxy]ethyl]-benzenemethanamine;  
*N*-methyl-2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxoethoxy]ethanamine;  
2,6-dichloro-4-fluorobenzenesulphonyl chloride;  
N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-2,6-dichloro-4-fluoro-N-methyl-benzene-sulphonamide;  
N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-2,6-dichloro-4-fluoro-N-methyl-benzene-sulphonamide, difumarate;  
N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-bromo-2,6-dichloro-N-methyl-benzenesulphonamide;  
N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-bromo-2,6-dichloro-N-methyl-benzenesulphonamide, difumarate;  
N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-2,4,6-trichloro-N-methyl-benzenesulphonamide;  
N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-2,4,6-trichloro-N-methyl-benzenesulphonamide, difumarate;  
N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-2,4-dichloro-6-methyl-N-methyl-benzenesulphonamide;  
N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-2,4-dichloro-6-methyl-N-methyl-benzenesulphonamide, difumarate;

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N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]-4-methoxy-2,3,6-trimethyl-N-methyl-benzenesulphonamide;

4-methoxy-N,2,3,6-tetramethyl-N-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperazinyl]-2-oxo-ethoxy]ethyl]benzene-sulphonamide, difumarate;

4-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methylamino]ethoxy]acetyl]-1-piperazinecarboxylic acid, 1,1-dimethylethyl ester;

4-methoxy-N,2,6-trimethyl-N-[2-[2-oxo-2-(1-piperazinyl)ethoxy]ethyl]benzenesulphonamide; 4-(3-oxopropyl)-1-piperidinecarboxylic acid, phenylmethyl ester;

4-[3-[4-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methylamino]ethoxy]acetyl]-1-piperazinyl]propyl]-1-piperidinecarboxylic acid, phenylmethyl ester;

4-methoxy-N,2,6-trimethyl-N-[2-[2-oxo-2-[4-[3-(4-piperidinyl)propyl]-1-piperazinyl]ethoxy]ethyl]benzene-sulphonamide;

4-methoxy-N,2,6-trimethyl-N-[2-[2-oxo-2-[4-[3-(1-methyl-4-piperidinyl)propyl]-1-piperazinyl]ethoxy]ethyl]benzene-sulphonamide;

4-methoxy-N,2,6-trimethyl-N-[2-[2-oxo-2-[4-[3-(1-methyl-4-piperidinyl)propyl]-1-piperazinyl]ethoxy]ethyl]benzene-sulphonamide, difumarate;

4-[4-(phenylmethyl)-1-piperazinyl]-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;

4-(1-piperazinyl)-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;

4-[4-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methylamino]ethoxy]acetyl]-1-piperazinyl]-1-piperidinecarboxylic acid, 1,1-dimethylethyl ester;

4-methoxy-N,2,6-trimethyl-N-[2-[2-oxo-2-[4-(4-piperidinyl)-1-piperazinyl]ethoxy]ethyl]benzenesulphonamide, bis(trifluoroacetate);

4-(6-nitro-3-pyridinyl)-1-piperazinecarboxylic acid, 1,1-dimethylethyl ester;

1-(6-nitro-3-pyridinyl)piperazine, bis(trifluoroacetate);

4-methoxy-N,2,6-trimethyl-N-[2-[2-oxo-2-[4-(6-nitro-3-pyridinyl)-1-piperazinyl]ethoxy]ethyl]benzenesulphonamide;

4-methoxy-N,2,6-trimethyl-N-[2-[2-oxo-2-[4-(6-amino-3-pyridinyl)-1-piperazinyl]ethoxy]ethyl]benzenesulphonamide;

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4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-oxo-2-[4-(6-amino-3-pyridinyl)-1-piperazinyl]ethoxy]ethyl]benzenesulphonamide, fumarate;  
N-[2-[2-[4-[2-(dimethylamino)-1,1-dimethylethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-4-methoxy-*N*,2,6-trimethylbenzenesulphonamide, trifluoroacetate;  
N-[2-[2-[4-[2-(dimethylamino)-1-hydroxyethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-4-methoxy-*N*,2,6-trimethylbenzenesulphonamide, trifluoroacetate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(4-methyl-1-piperazinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(4-methyl-1-piperazinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;  
N-cyclopropyl-4-methoxy-2,6-dimethyl-*N*-[2-[2-[4-(4-methyl-1-piperazinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, difumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[2-(1-pyrrolidinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[4-(1-methylethyl)-1-piperazinyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;  
N-ethyl-4-methoxy-2,6-dimethyl-*N*-[2-[2-[4-[2-(1-pyrrolidinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;  
N-cyclopropyl-4-methoxy-2,6-dimethyl-*N*-[2-[2-[4-[2-(1-pyrrolidinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;  
*N*-[2-[2-[4-[2-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-4-methoxy-*N*,2,6-trimethyl-benzenesulphonamide, difumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[2-[methyl(1-methylethyl)amino]ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-benzenesulphonamide, fumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[methyl(1-methyl-4-piperidinyl)amino]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[1-(1-methylethyl)-4-piperidinyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;



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4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(1-ethyl-4-piperidinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(1-cyclopropyl-4-piperidinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[2-(4-morpholinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[1,1-dimethyl-2-(1-azetidiny)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;

*N*-ethyl-4-methoxy-2,6-dimethyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;

*N*-[2-[2-[4-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)-1-piperidinyl]-2-oxoethoxy]ethyl]-4-methoxy-*N*,2,6-trimethyl-benzenesulphonamide, fumarate;

*N*-cyclopropyl-4-methoxy-2,6-dimethyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;

2,4-dichloro-*N*,3-dimethyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[2-(1-azetidiny)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;

2,6-dichloro-4-methoxy-*N*-methyl-*N*-[2-[2-[4-[2-(dimethylamino)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-benzenesulphonamide, fumarate;

2,6-dichloro-4-methoxy-*N*-methyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[(1-pyrrolidinyl)methyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[(4-ethyl-1-piperaziny)methyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;

*N*-cyclopropyl-4-methoxy-2,6-dimethyl-*N*-[2-[2-[4-[(4-methyl-1-piperaziny)methyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, difumarate;

*N*-ethyl-4-methoxy-2,6-dimethyl-*N*-[2-[2-[4-[(4-methyl-1-piperaziny)methyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, difumarate;

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*N*-methyl-4-methoxy-2,6-dichloro-*N*-[2-[2-[4-[(4-methyl-1-piperazinyl)methyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, difumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[1,1-dimethyl-2-(1-piperidinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, trifluoroacetate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[1,1-dimethyl-2-(1-pyrrolidinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;

*N*-[2-[2-[4-[2-(ethylmethylamino)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-4-methoxy-*N*,2,6-trimethylbenzene-sulphonamide, fumarate;

*N*-[2-[2-[4-[2-(diethylamino)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-4-methoxy-*N*,2,6-trimethylbenzene-sulphonamide, fumarate;

4-methoxy-*N*-(1-methylethyl)-2,6-dimethyl-*N*-[2-[2-[4-[2-(1-pyrrolidinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[1,1-dimethyl-2-(4-morpholinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;

*N*-[2-[2-[4-[2-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-4-methoxy-*N*,2,6-trimethylbenzenesulphonamide, difumarate;

*N*-[2-[2-[4-[(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)methyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-4-methoxy-*N*,2,6-trimethylbenzenesulphonamide, difumarate;

4-methoxy-*N*-[2-[2-[4-[2-(1-methyl-4-piperidinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-*N*,2,6-trimethylbenzenesulphonamide, fumarate;

4-methoxy-*N*-[2-[2-[4-[2-(1-piperidinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-*N*,2,6-trimethylbenzenesulphonamide, fumarate;

4-methoxy-*N*-[2-[2-[4-[2-(1-pyrrolidinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-*N*-methyl-2-trifluoromethyl-benzenesulphonamide, trifluoroacetate;

4-methoxy-*N*-[2-[2-[4-[2-(1-methyl-4-piperazinyl)-2-oxoethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-*N*,2,6-trimethylbenzenesulphonamide, fumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[1,1-dimethyl-2-(diethylamino)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, trifluoroacetate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(dimethylamino)methyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;

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4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[(1-azetidiny)methyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;  
*N*,2,4,6-tetramethyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, trifluoroacetate;  
*N*-methyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]-2-trifluoromethyl-benzenesulphonamide, trifluoroacetate;  
4-methoxy-*N*-methyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]-2-trifluoromethyl-benzenesulphonamide, trifluoroacetate;  
*N*,2,4,6-tetramethyl-*N*-[2-[2-[4-[2-(1-pyrrolidinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, trifluoroacetate;  
2,6-dichloro-4-methoxy-*N*-methyl-*N*-[2-[2-[4-(1-methyl-4-piperazinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, difumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[2-(dimethylamino)ethyl]-1-piperidinyl]-2-oxoethoxy]-ethyl]benzenesulphonamide, fumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(4-cyclopropyl-1-piperazinyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(1,1-dimethylethyl)-1-piperazinyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, difumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[(4-methyl-1-piperazinyl)methyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, difumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[2-(4-methyl-1-piperazinyl)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, difumarate;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(3-hydroxypropyl)-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-[[[(4-methylphenyl)sulphonyloxy]propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(4-morpholinyl)-propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(4-morpholinyl)-propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;

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4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(1-pyrrolidinyl)propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-benzenesulphonamide;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(1-pyrrolidinyl)propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, fumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, difumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(4-methyl-1-piperazinyl)propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(4-methyl-1-piperazinyl)propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzene-sulphonamide, difumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(1-azetidiny]propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(1-azetidiny]propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(dimethylamino)-propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[3-(dimethylamino)-propyl]-1-piperidinyl]-2-oxoethoxy]ethyl]-benzenesulphonamide, fumarate;

1'-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]ethoxy]acetyl]-[4,4'-bipiperidine]-1-carboxylic acid, 1,1-dimethylethyl ester;

*N*-[2-(2-[4,4'-bipiperidin]-1-yl-2-oxoethoxy)ethyl]-4-methoxy-*N*,2,6-trimethyl-benzenesulphonamide, trifluoroacetate;

-[2-[1-[[2-[[[(4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]ethoxy]acetyl]-4-piperidinyl]ethyl]methyl-carbamic acid, 1,1-dimethylethyl ester;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[2-(methylamino)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide;

4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[2-(methylamino)ethyl]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, fumarate;

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[1-[[2-[[[4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]ethoxy]acetyl]-4-piperidinyl]carbamic acid, 1,1-dimethylethyl ester;  
*N*-[2-[2-(4-amino-1-piperidinyl)-2-oxoethoxy]ethyl]-4-methoxy-*N*,2,6-trimethyl-benzenesulphonamide;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)amino]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)amino]-1-piperidinyl]-2-oxoethoxy]-ethyl]benzenesulphonamide, bis(trifluoroacetate);  
-[1-[[2-[[[4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]ethoxy]acetyl]-4-piperidinyl]methylcarbamic acid, 1,1-dimethylethyl ester;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(methylamino)-1-piperidinyl]-2-oxoethoxy]ethyl]-benzenesulphonamide;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[methyl(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)amino]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-[methyl(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)amino]-1-piperidinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, bis(trifluoroacetate);  
4-[[1-[(1,1-dimethylethoxy)carbonyl]-4-piperidinyl]methyl]-1-piperazinecarboxylic acid, phenylmethyl ester;  
4-(4-piperidinylmethyl)-1-piperazinecarboxylic acid, phenylmethyl ester;  
4-[[1-[[2-[[[4-methoxy-2,6-dimethylphenyl)sulphonyl]methyl-amino]ethoxy]acetyl]-4-piperidinyl]methyl]-1-piperazinecarboxylic acid, phenylmethyl ester;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-oxo-2-[4-(1-piperazinyl-methyl)-1-piperidinyl]ethoxy]ethyl]benzenesulphonamide;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-oxo-2-[4-(1-piperazinyl-methyl)-1-piperidinyl]ethoxy]ethyl]benzenesulphonamide, fumarate;  
1-[[2-[[[4-methoxy-2,6-dimethylphenyl)sulphonyl]methylamino]ethoxy]acetyl]-4-piperidinecarboxylic acid, ethyl ester;  
1-[[2-[[[4-methoxy-2,6-dimethylphenyl)sulphonyl]methylamino]ethoxy]acetyl]-4-piperidinecarboxylic acid;

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4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-oxo-2-[4-[1-oxo-2-(4-methyl-1-piperazinyl)ethyl]-1-piperidinyl]ethoxy]-ethyl]benzenesulphonamide, bis(trifluoroacetate);  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)]-1-piperazinyl]-2-oxoethoxy]ethyl]benzenesulphonamide;  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)]-1-piperazinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, dihydrochloride; and  
4-methoxy-*N*,2,6-trimethyl-*N*-[2-[2-[4-(1-methyl-4-piperidinyl)]-1-piperazinyl]-2-oxoethoxy]ethyl]benzenesulphonamide, difumarate; ~~or~~  
~~a salt thereof.~~

### Reasons for Allowance

9. The following is an examiner's statement of reasons for allowance:

The current application is free of the prior art. The closest prior art that is seen is Etemad-Moghodam, et. al., European Journal of Medicinal Chemistry, (1988), **23**, 577-85. The point of novelty in the current application is the piperazinyl ring. In the prior art only a piperidinyl ring is seen.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee, and to avoid delays, should preferably accompany the issue fee. Such submissions should clearly be labeled "Comments on the Statements of Reasons for Allowance".

### Conclusion

10. Claims 1, 3-7, 10 and 11 are allowed.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey H. Murray, J.D., whose telephone number is 571-272-9023. The examiner can normally be reached on Mon.-Thurs. 7:30-6pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. James O. Wilson can be reached at 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jeffrey H Murray/  
Patent Examiner  
Art Unit 1624

**/James O. Wilson/  
Supervisory Patent Examiner, Art Unit 1624**